

**REMARKS**

Claims 1-11 are in this application with claims 1 and 11 having been amended herein. No new matter is added by these amendments. The instant amendments supersede those submitted on October 2, 2006, which were not entered by the Examiner as indicated in the Advisory Action of October 17, 2006.

The Examiner is thanked for indicating that claims 6 and 9 contain allowable subject matter and would be allowed if rewritten in independent form.

The final office action of June 2, 2006 rejected claims 1 and 11 under 35 U.S.C. § 112, second paragraph as being indefinite. Claims 1 and 11 have been amended to overcome this rejection. Withdrawal of the rejection is requested.

The office action also objected to claim 11 for certain informalities which have been addressed by the amendment to claim 11 to incorporate the language requested by the Examiner. Withdrawal of the objections is requested.

On the merits, the office action rejected claims 1, 2-5, 7, and 11 under 35 U.S.C. § 102(e) as anticipated by U.S. Patent No. 6,775,340 to Arslan. Further claim 10 was rejected under 35 U.S.C. § 103(a) as unpatentable over Arslan in view of U.S. Patent No. 6,345,078 to Basso.

The rejection of independent claims 1 and 11 is traversed for at least the following reasons. Independent claim 1 recites:

a channel estimating unit making channel estimation by  
using the pilot signal from which a predefined part of the  
pilot signal is removed

and independent claim 11 recites:

performing making channel estimation by using the pilot signal  
from which a predefined part of the pilot signal is removed;

It is respectfully submitted that Arslan does not teach these features recited in independent claims 1 and 11.

It is submitted that the relied upon portions of Arslan do not teach removing a predefined part of the pilot signal which includes the synchronization bit.

As best understood, the relied upon portions of Arslan state at col. 3, lines 43-57, that the output of the synchronization and channel cluster estimation block 24, is “down-sampled.” Thus , according to Arslan this down-sampling occurs following channel estimation. As recited in claim 1 the channel estimation is performed on a “pilot signal from which a predefined part of the pilot signal is removed.” Accordingly, unlike Arslan the present claims 1 and 11 do not teach remove part of the result of the channel estimation, but rather the input to the channel estimation unit.

Further, according to independent claims 1 and 11 a portion of the pilot signal is “removed.” By contrast Arslan teaches that the pilot clusters are “extended to unknown symbols adjacent to the known pilot signal, the values of the unknown symbols are hypothesized, and the error is calculated for each hypothesis. (See col. 3, line 67-col. 4, line 53).

Thus, Arslan does not teach removing a predefined part of the pilot signal which includes the synchronization bit, as recited in claims 1 and 11.

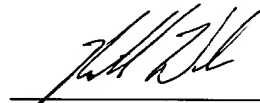
It is respectfully submitted that the shortcomings of Arslan are not addressed by the relied upon portions of Basso. Accordingly, independent claims 1 and 11 patentably distinguish over the relied upon portions of Arslan and are allowable. Claims 2-10 which depend from claim 1 are allowable therewith.

### **CONCLUSION**

In view of the remarks set forth above, this application is in condition for allowance which action is respectfully requested. However, if for any reason the Examiner should consider this application not to be in condition for allowance, the Examiner is respectfully requested to telephone the undersigned attorney at the number listed below prior to issuing a further Action.

Any fee due with this paper may be charged to Deposit Account No. 50-1290.

Respectfully submitted,



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